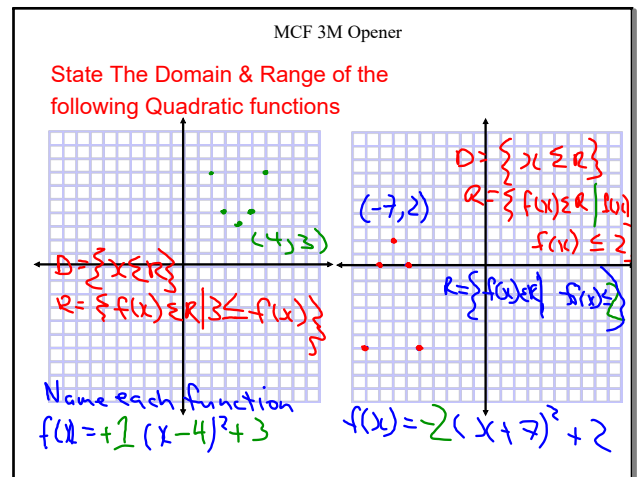


Feb 17-9:23 AM



Feb 17-9:23 AM

### 2.1 Working with Quadratic Expressions p. 78-87

Evelyn is sewing a quilt as shown. If the width of the border is  $x$ , state the area of the quilt as a function of  $x$ .

Expansion

$A(x) = l \times w$   
 $A(x) = (3 + 2x)(3 + 2x)$   
 $A(x) = 3 + 6x + 2x + 4x^2$   
 $A(x) = 3 + 8x + 4x^2$   
 $A(x) = 4x^2 + 8x + 3$

Feb 20-1:39 PM

### 2.1 Working with Quadratic Expressions

Multiplying Binomials

Expansion

$(x+3)(x-6)$   
 $x^2 - 6x + 3x - 18$   
 $x^2 - 3x - 18$

OR CHART METHOD

$(3x+2)(2x+3)$   
 $(3x+2)(2x+3)$   
 $= 6x^2 + 9x + 4x + 6$   
 $= 6x^2 + 13x + 6$

Chart Method:

$3x$	$2$	$6x^2$	$4x$
$2x$	$3$	$4x$	$6$
		$6x^2 + 13x + 6$	

Feb 20-1:39 PM

ii)  $(2x-2)(4x+3)$

$= 8x^2 + 6x - 8x - 6$   
 $= 8x^2 - 2x - 6$

iii)  $(3x+2)^2 \rightarrow$  Perfect Squares

$(3x+2)(3x+2)$   
 $9x^2 + 6x + 6x + 4$   
 $9x^2 + 12x + 4$

Feb 20-1:48 PM

iv)  $(2x+2)(2x-2)$  Difference of Squares

$4x^2 - 4$

v)  $(4x(x-3)) + ((3x+2)(2x-6))$

$[4x^2 - 12x] + [6x^2 - 18x + 4x - 12]$   
 $4x^2 - 12x + 6x^2 - 18x + 4x - 12$   
 $f(x) = 10x^2 - 26x - 12$

Feb 20-1:53 PM

q 5-8, 10,11, 14, 15 p 86 &amp;87

(odds) i.e. 5 a,c,e... 6,7,8 odds

p 543 q. 3 &amp; 4

q.5c) together

$$2(x-3)^2$$

$$2(x-3)(x-3)$$

$$2[x^2 - 6x + 9]$$

$$2x^2 - 12x + 18$$

Feb 20-2:03 PM

$$5$$

$$c) 2(x-3)^2 - (4x+1)(4x-1)$$

$$2(x-3)(x-3) - (4x+1)(4x-1)$$

$$2(x^2 - 3x - 3x + 9) - (4x+1)(4x-1)$$

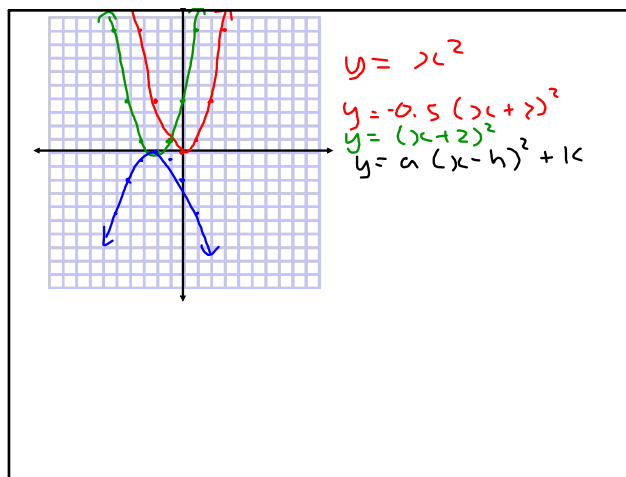
$$2x^2 - 6x - 6x + 18 - (4x+1)(4x-1)$$

$$2x^2 - 6x - 6x + 18 - (16x^2 - 4x + 4x - 1)$$

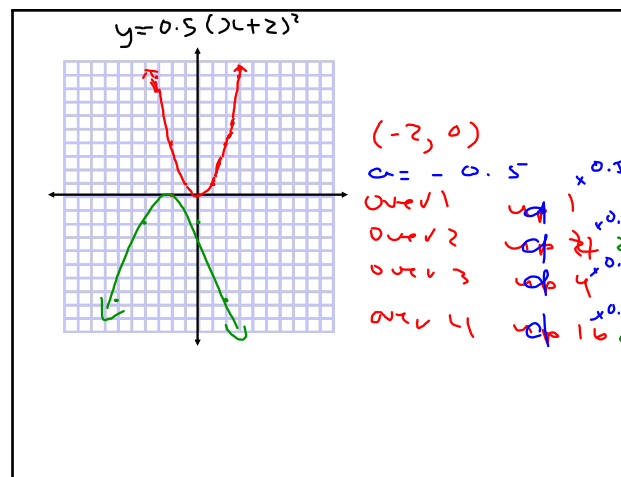
$$2x^2 - 6x - 6x + 18 - 16x^2 + 4x - 4x + 1$$

$$-14x^2 - 12x + 19$$

Feb 17-10:21 AM



Feb 17-10:51 AM



Feb 17-10:57 AM